What is claimed is:

- 1. A method for preparing a film structure of a ferroelectric single crystal, which comprises adhering a ferroelectric single crystal plate to a substrate by a conductive adhesive or metal layer.
- 2. The method of claim 1, wherein the single crystal plate is polished to a thickness of 1 to 100 µm before and after the adhesion with the substrate.
- 3. The method of claim 1, wherein the single crystal plate is adhered to the substrate by placing a conductive adhesive between the single crystal plate and the substrate and heat treating the resulting laminate containing the adhesive at a temperature ranging from room temperature to 150 °C for 1 to 24 hours to cure the adhesive.

15

5

4. The method of claim 3, wherein the conductive adhesive is a gold- or silvercontaining epoxy paste, or a Pt-containing adhesive sol.

20

- 5. The method of claim 3, which the adhesive is applied using a plate equipped with a pressurizing rod having a round terminal portion made of an elastic rubber.
- 6. The method of claim 1, wherein the single crystal plate is adhered to the substrate by depositing a conductive metal on each surface of the single crystal plate and the substrate, combining the two conductive metal layers, and pressurizing and heat-treating the resulting laminate at a temperature of 100 to 600 °C.

5

- 7. The method of claim 6, which further comprises inserting a plate of a metal having a melting point lower than that of the conductive metal between the two conductive metal layers prior to the pressurizing and heat-treating step of the laminate.
- 8. The method of claim 1, wherein the ferroelectric single crystal has a dielectric constant of 1,000 or greater as measured in a film form.
- 9. The method of claim 1, wherein the ferroelectric single crystal is LiNbO₃, LiTaO₃ or a material having the composition of formula (I):

x(A)y(B)z(C)-p(P)n(N)

(I)

wherein,

- (A) is $Pb(Mg_{1/3}Nb_{2/3})O_3$ or $Pb(Zn_{1/3}Nb_{2/3})O_3$,
- 15 (B) is $PbTiO_3$,
 - (C) is LiTaO₃,
 - (P) is a metal selected from the group consisting of Pt, Au, Ag, Pd and Rh,
 - (N) is an oxide of a metal selected from the group consisting of Ni, Co, Fe, Sr, Sc, Ru, Cu and Cd,
- 20 x is a number in the range of 0.65 to 0.98,
 y is a number in the range of 0.01 to 0.34,
 z is a number in the range of 0.01 to 0.1, and
 p and n are each independently a number in the range of 0.01 to 5.
- 25 10. The method of claim 1, wherein the substrate comprises a layer of an oxide material selected from SiO₂, MgO, Al₂O₃ and ZnO, the oxide layer being contacted with the conductive adhesive layer.

11. The method of claim 1, which further comprises forming a conductive metal layer on the surface of the single crystal plate opposite to the adhesive layer by a sputtering or an electronic beam evaporation method.

5

10

- 12. A ferroelectric single crystal film structure prepared by a method according to any one of claims 1 to 11.
- 13. An electric or electronic device comprising the ferroelectric single crystal film structure according to claim 12.